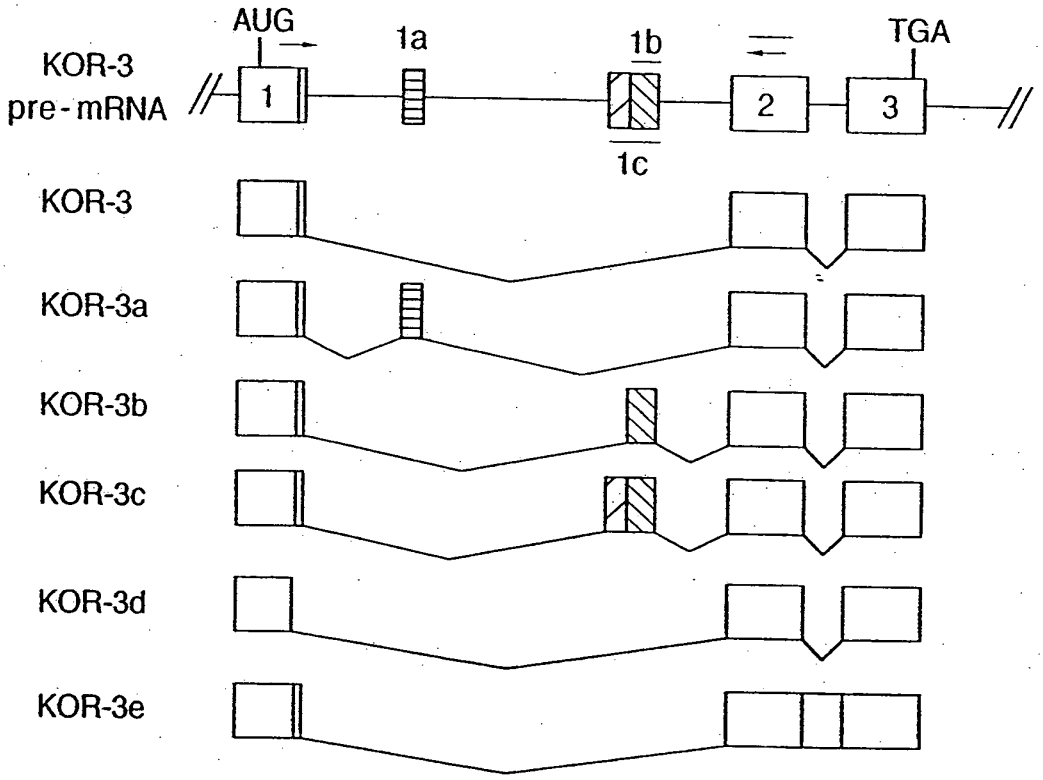

AUG
1a
1b
TGA
KOR-3
pre-mRNA
1
2
3
1c
KOR-3
KOR-3a
KOR-3b
KOR-3c
KOR-3d
KOR-3e

FIG. 1

MLATVPSCPLDSRSPSWGSTWLCASGGSWGTASSCMSSSAGRALRGTGDSRHTKMKTATN
IYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVD
RYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAP
QDYWGPVFAICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLV
VVAVFVGCWTPVQVFVLVQGLGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFK
ACFRKFCCASALHREMQVSDRVRSIAKDVGLGCKTSETVPRPA

FIG. 2

MESLFPAPFWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCI
GGLLGNCLVMYVILRQCPENPLRGVLRETEERRQHLSLLIPSTNSHSGTPR

FIG. 3

MESLFPAPFWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCI
GGLLGNCLVMYVILRQHCALGRSLMNFTGSALKTL

FIG. 4

MESLFPAPFWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGL
YLAVCIGGLLGNCLVMYVILRHTKMKTATNIYIFNLALADTLVLLTLPFQGTDI
LLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVDRYVAICHPIRALDVRTSS
KAQAVNVAIWALASVVGVPVAIMGSAQVEDEGQWAVLLPDQSVPHGSCRPL

FIG. 5

MLVTAPSCPLDSRSPSWGSTWLCASGGSWGTASSCMSSSAGRALRGTGDSRHTKMKTATN
IYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVD
RYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAP
QDYWGPVFAICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLV
VVAVFVGCWTPVQVFVLVQGLGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFK
ACFRKFCCASSLHREMQVSDRVRSIAKDVGLGCKTSETVPRPA

FIG. 6

MPATAPSCPSGSRSPSWGSTWPCVSEGSWGTALSCTSSSGRLGPKVPVWHTKMKTATNIY
IFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVDRY
VAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPTPQD
YWGPVFAICIFLFSFIVPVLVISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLVVV
AVFVGCWTPVQVFVLAQGLGVQPSSETAVAILRFCTALGYVNSCLNPILYAFLDENFKAC
FRKFCCASALRRDVQVSDRVRSIAKDVALACKTSETVPRPA

FIG. 7

MEPLFPAPFWEVIYGSHLQGNLSLLSPNHSLLPPHLLLNASHGAFLPLGLKVTIVGLYL
AVCVGGLLGNCLVMHTKMKTATNIYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALC
KTVIAIDYYNMFTSTFTLTAMSVDRYVAICHPIRALDVRTSSKAQAVNVAIWALASVVG
VPVAIMGSAQVEDEEIECLVEIPTPQDYWGPVFAICIFLFSFIVPVLVISVCYSLMIRR
LRGVRLLSGSREKDRNLRRITRLVLVVVAVFVGCWTPVQVFVLAQGLGVQPSSETAVAI
LRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASALRRDVQVSDRVRSIAKDVALA
CKTSETVPRPA

FIG. 8

```
1     tttggcttcc ttctccaacc tgcgcagccc ctccttctct cagccgcagc cttctgcccc
61    tcccccttct ggctgccgca ctggctgctg cgtctagtca atatcttatc ttcggagcag
121   gagctaggag ccattcccag ccggagcaga ccccaagcta gagtgagaag cattactcag
181   ttcattgtgc tcctgcctgc ctttctgcta agcattaggg tctgttttgg cccagcttct
241   gaagaggttg tgtgtgctgt tggaggaact gtactgagtg gctttgcagg gtgacagcat
301   ggagtccctc tttcctgccc cattctggga ggtcttgtat ggcagccact ttcaagggaa
361   cctgtctctc ctaaatgaga ccgtacccca tcacctgctc ctcaatgcta gccacagtgc
421   cttcctgccc cttggactca aggtcaccat cgtggggctc tacttggctg tgtgcatcgg
481   ggggctcctg gggaactgcc tcgtcatgta tgtcatcctc agctgggagg gcattgaggg
541   gaactggaga cagcaggcac accaagatga agactgctac caacatttac atatttaatc
601   tggcactggc tgataccctg gtcttgctga cactgccctt ccagggcaca gacatccttc
661   tgggcttctg gccatttggg aatgcactgt gcaagacggt cattgctatc gactactaca
721   acatgtttac cagcactttc actttgactg ccatgagtgt agaccgttat gtagctatct
781   gccaccctat ccgtgccctt gatgttcgga catccagtaa agcccaggcc gttaatgtgg
841   ccatatgggc cctggcttcg gtggttggtg ttcctgttgc catcatgggc tcagcacaag
901   tggaggatga agagatcgag tgcctggtgg agatccccgc ccctcaggac tattggggcc
961   ctgtatttgc catctgcatc ttccttttct ccttcatcat cccggttctg atcatctctg
1021  tctgctacag cctcatgatt cgacgacttc gtggtgtccg gctgctttca ggctcccgag
1081  agaaggaccg gaacctgcga cgcatcacac ggctggtact ggtagttgtg gctgtgtttg
1141  tgggctgctg gacacctgtg caggtctttg tcctggttca aggactgggt gttcagccag
1201  gtagtgagac tgcagtagcc attctgcgct tctgcacagc cctgggctat gtcaacagtt
1261  gtctcaatcc cattctctat gctttcttgg atgagaactt caaggcctgc tttagaaagt
1321  tctgctgtgc ttctgccctg caccgggaga tgcaggtttc tgatcgtgtg cgcagcattg
1381  ccaaggatgt aggccttggt tgcaagacct ctgagacagt accacggccg gcatgactag
1441  gcgtggacct gcccatggtg cctgtcagtc ctagaggaag acctttttagc accatgggac
```

FIG. 9A

```
1501 aggtcaaagc atcaaggtgg cctccatggc tctgtcagat taagtttcct ccctggtata
1561 ggaccagaga gaaccaaagg aactgcatgg aaacatccac aactcagtgg acatgcctgg
1621 tgaacccatg taggtattca tggttcactt gactcttctc tggtttctcc ctgctgccct
1681 ggttctaggt gggctcagct gaggtattgt agttgtcatg tagtcactat tgtgactacc
1741 tgttgtgtgc tattgccctc agccttcagt gtttgcacag aactggtgat catacccagt
1801 gttgcctggc ccttaagctt ggagttgcct tggagcatct agttctgact ccactgatgc
1861 attcagatta cctgaggtgg gtgagcatca gtgggttctt ggatgactgt ttcctgacga
1921 ttcttttcat gctgtactat ggtgtatatg aaggggactt cacacttcat ctggtactgc
1981 cactgcctgc tctaccaacc tggaccacct tctcagcaag aggctagcag ggggacaaga
2041 cacaaagctt ccctaaggct ctttccctcc aaaaccactg tgaactctta ttctacagac
2101 tgtttggcaa gccctgcttc taactgtgtg ggaagtaatc aggagaaaat tctgtggcct
2161 ctgtaggctg ctcacagcat ggaggcacca catgctggtc ttgggtatgt gtcttggctg
2221 ctcagtatgg gcagggcagg gcacgagact atctctctcc ttattctcca cagcctccct
2281 cagctctcca gcagtcgctc ttttacttga cagtagaggt tagcagcagt tgtactcgta
2341 gaaacacact tgtagcccgg gaagactgga gtcaggatgt gttctattct atacccacag
2401 tgaccacctg cttcatttat agggttagga catatccaag caaggcctgg gcttggcatc
2461 aaatgaagag ctggtatgag agctgaagcc taaaatggct catttgagca atctgcaagg
2521 actattacgg ttttggggac attggaagaa gagtcgatac cttggagata tattgttggt
2581 tcacagaaga agaggctttg taaatgccct ttctatgggt cagataaaaa aaaa
```

FIG. 9B

```
1    tggctttgca gggtgacagc atggagtccc tctttcctgc cccattctgg gaggtcttgt
61   atggcagcca ctttcaaggg aacctgtctc tcctaaatga gaccgtaccc catcacctgc
121  tcctcaatgc tagccacagt gccttcctgc cccttggact caaggtcacc atcgtggggc
181  tctacttggc tgtgtgcatc gggggggctcc tggggaactg cctcgtcatg tatgtcatcc
241  tcaggcagtg ccctgaaaac cctctgagag gagtcttaag agagactgag gagagaagac
301  gcatctctc tctcttgatt ccttccacaa attcacattc aggcacacca agatgaagac
361  tgctaccaac atttacatat ttaatctggc actggctgat accctggtct tgctgacact
421  gcccttccag ggcacagaca tccttctggg cttctggcca tttgggaatg cactgtgcaa
481  gacggtcatt gctatcgact actacaacat gtttaccagc actttcactt tgactgccat
541  gagtgtagac cgttatgtag ctatctgcca ccctatccgt gcccttgatg ttcggacatc
601  cagtaaagcc caggccgtta atgtggccat atgggccctg gcttcggtgg ttggtgttcc
661  tgttgccatc atgggctcag cacaagtgga ggatgaagag atcgagtgcc tggtggagat
721  ccccgcccct caggactatt ggggccctgt atttgccatc tgcatcttcc ttttttcctt
781  catcatcccg gttctgatca tctctgtctg ctacagcctc atgattcgac gacttcgtgg
841  tgtccggctg ctttcaggct cccgagagaa ggaccggaac ctgcgacgca tcacacggct
901  ggtactggta gttgtggctg tgtttgtggg ctgctggaca cctgtgcagg tctttgtcct
961  ggttcaagga ctgggtgttc agccaggtag tgagactgca gtagccattc tgcgcttctg
1021 cacagccctg ggctatgtca acagttgtct caatcccatt ctctatgctt tcttggatga
1081 gaacttcaag gcctgcttta gaaagttctg ctgtgcttct gccctgcacc gggagatgca
1141 ggtttctgat cgtgtgcgca gcattgccaa ggatgtaggc cttggttgca agacctctga
1201 gacagtacca cggccggcat gactaggcgt ggacctgccc atggtgcctg tcagtcc
```

FIG. 10

```
1    tggctttgca gggtgacagc atggagtccc tctttcctgc cccattctgg gaggtcttgt
61   atggcagcca ctttcaaggg aacctgtctc tcctaaatga gaccgtaccc catcacctgc
121  tcctcaatgc tagccacagt gccttcctgc cccttggact caaggtcacc atcgtggggc
181  tctacttggc tgtgtgcatc ggggggctcc tggggaactg cctcgtcatg tatgtcatcc
241  tcagacaaca ttgtgcactt ggaagatctt tgatgaactt tacaggcagt gccctgaaaa
301  ccctctgaga ggagtcttaa gagagactga ggagagaaga cagcatctct ctctcttgat
361  tccttccaca aattcacatt caggcacacc aagatgaaga ctgctaccaa catttacata
421  tttaatctgg cactggctga taccctggtc ttgctgacac tgcccttcca gggcacagac
481  atccttctgg gcttctggcc atttgggaat gcactgtgca agacggtcat tgctatcgac
541  gctatctgcc accctatccg tgcccttgat gttcggacat ccagtaaagc ccaggccgtt
601  aatgtggcca tatgggccct ggcttcggtg gttggtgttc ctgttgccat catgggctca
661  gcacaagtgg aggatgaaga gatcgagtgc ctggtggaga tccccgcccc tcaggactat
721  tggggccctg tatttgccat ctgcatcttc ctttttttcct tcatcatccc ggttctgatc
781  atctctgtct gctacagcct catgattcga cgacttcgtg gtgtccggct gctttcaggc
841  tcccgagaga aggaccggaa cctgcgacgc atcacacggc tggtactggt agttgtggct
901  gtgtttgtgg gctgctggac acctgtgcag gtctttgtcc tggttcaagg actgggtgtt
961  cagccaggta gtgagactgc agtagccatt ctgcgcttct gcacagccct gggctatgtc
1021 aacagttgtc tcaatcccat tctctatgct ttcttggatg agaacttcaa ggcctgcttt
1081 agaaagttct gctgtgcttc tgccctgcac cgggagatgc aggtttctga tcgtgtgcgc
1141 agcattgcca aggatgtagg ccttggttgc aagacctctg agacagtacc acggccggca
1201 tgactaggcg tggacctgcc catggtgcct gtcagtccac agagcccatc tacacccaac
1261 acggagctca cacaggtcac tgctctctag gttgaccctg aactgagcgt ctggggcctt
1321 gaatggcttt tcttttggtt caggatgctc agtcctagag gaagaccttt tagcaccatg
1381 ggacaggtca aagcatcaag gtggcctcca tggctctgtc agattaagtt tcctccctgg
1441 tataggacca gagagaacca aaggaactgc atggaaacat ccacaactca gtggacatgc
```

FIG. 11A

```
1501 ctggtgaacc catgtaggta ttcatggttc acttgactct tctctggttt ctccctgctg
1561 ccctggttct aggtgggctc agctgaggta ttgtagttgt catgtagtca ctattgtgac
1621 tacctgttgt gtgctattgc cctcagcctt cagtgtttgc acagaactgg tgatcatacc
1681 cagtgttgcc tggcccttaa gcttggagtt gccttggagc atctagttct gactccactg
1741 atgcattcag attacctgag gtgggtgagc atcagtgggt tcttggatga ctgtttcctg
1801 acgattcttt tcatgctgta ctatggtgta tatgaagggg acttcacact tcatctggta
1861 ctgccactgc ctgctctacc aacctggacc accttctcag caagaggcta gcaggggac
1921 aagacacaaa gcttccctaa ggctctttcc ctccaaaacc actgtgaact cttattctac
1981 agactgtttg gcaagccctg cttctaactg tgtgggaagt aatcaggaga aaattctgtg
2041 gcctctgtag gctgctcaca gcatggaggc accacatgct ggtcttgggt atgtgtcttg
2101 gctgctcagt atgggcaggg cagggcacga gactatctct ctccttattc tccacagcct
2161 ccctcagctc tccagcagtc gctcttttac ttgacagtag aggttagcag cagttgtact
2221 cgtagaaaca cacttgtagc ccgggaagac tggagtcagg atgtgttcta ttctataccc
2281 acagtgacca cctgcttcat ttatagggtt aggacatatc caagcaaggc ctgggcttgg
2341 catcaaatga agagctggta tgagagctga agcctaaaat ggctcatttg agcaatctgc
2401 aaggactatt acggttttgg ggacattgga agaagagtcg ataccttgga gatatattgt
2461 tggttcacag aagaagaggc tttgtaaatg ccctttctat gggtcagata aaaaaaaa
```

FIG. 11B

GTACTGAGTGGCTTTGCAGGGTGACAGCATGGAGTCCCTCTTTCCTGCTCCATACTGGGA
GGTCTTGTATGGCAGCCACTTTCAAGGGAACCTGTCCCTCCTAAATGAGACCGTACCCCA
CCACCTGCTCCTCAATGCTAGTCACAGCGCCTTCCTGCCCCTTGGACTCAAGGTCACCAT
CGTGGGGCTCTACTTGGCTGTGTGCATCGGGGGGCTCCTGGGGAACTGCCTCGTCATGTA
TGTCATCCTCAGCTGGGAGGGCATTGAGGGGGACTGGAGACAGCAGGCACACCAAGATGA
AGACAGCTACCAACATTTACATATTTAATCTGGCACTGGCTGATACCCTGGTCTTGCTAA
CACTGCCCTTCCAGGGCACAGACATCCTACTGGGCTTCTGGCCATTTGGGAATGCACTCT
GCAAGACTGTCATTGCTATCGACTACTACAACATGTTTACCAGCACTTTTACTCTGACCG
CCATGAGCGTAGACCGCTATGTGGCTATCTGCCACCCTATCCGTGCCCTTGATGTTCGGA
CATCCAGCAAAGCCCAGGCTGTTAATGTGGCCATATGGGCCCTGGCTTCAGTGGTTGGTG
TTCCTGTTGCCATCATGGGTTCAGCACAAGTGGAAGATGAAGAGATCGAGTGCCTGGTGG
AGATCCCTGCCCCTCAGGACTATTGGGGCCCTGTATTCGCCATCTGCATCTTCCTTTTTT
CCTTCATCATCCCTGTGCTGATCATCTCTGTCTGCTACAGCCTCATGATTCGACGACTTC
GTGGTGTCCGTCTGCTTTCAGGCTCCCGGGAGAAGGACCGAAACCTGCGGCGTATCACTC
GACTGGTGCTGGTAGTGGTGGCTGTGTTTGTGGGCTGCTGGACGCCTGTGCAGGTGTTTG
TCCTGGTTCAAGGACTGGGTGTTCAGCCAGGTAGTGAGACTGCAGTTGCCATCCTGCGCT
TCTGCACAGCCCTGGGCTATGTCAACAGTTGTCTCAATCCCATTCTCTATGCTTTCCTGG
ATGAGAACTTCAAGGCCTGCTTTAGAAAGTTCTGCTGTGCTTCATCCCTGCACCGGGAGA
TGCAGGTTTCTGATCGTGTGCGGAGCATTGCCAAGGATGTTGGCCTTGGTTGCAAGACTT
CTGAGACAGTACCACGGCCAGCATGACTAGGCGTGGACCTGCCCATGGTGCCTGTCAGCC
CTGAACCTTGAGCATCTGGAGCC

FIG. 12

GTACTGAGTGGCTTTGCAGGGTGACAGCATGGAGTCCCTCTTTCCTGCTCCATACTGGGAGGTCT
TGTATGGCAGCCACTTTCAAGGGAACCTGTCCCTCCTAAATGAGACCGTACCCCACCACCTGCTC
CTCAATGCTAGTCACAGCGCCTTCCTGCCCCTTGGACTCAAGGTCACCATCGTGGGGCTCTACTT
GGCTGTGTGCATCGGGGGGCTCCTGGGGAACTGCCTCGTCATGTATGTCATCCTCAGCTGGGAGG
GCATTGAGGGGGACTGGAGACAGCAGGCACACCAAGATGAAGACAGCTACCAACATTTACATATT
TAATCTGGCACTGGCTGATACCCTGGTCTTGCTAACACTGCCCTTCCAGGGCACAGACATCCTAC
TGGGCTTCTGGCCATTTGGGAATGCACTCTGCAAGACTGTCATTGCTATCGACTACTACAACATG
TTTACCAGCACTTTTACTCTGACCGCCATGAGCGTAGACCGCTATGTGGCTATCTGCCACCCTAT
CCGTGCCCTTGATGTTCGGACATCCAGCAAAGCCCAGGCTGTTAATGTGGCCATATGGGCCCTGG
CTTCAGTGGTTGGTGTTCCTGTTGCCATCATGGGTTCAGCACAAGTGGAAGATGAAGAGATCGAG
TGCCTGGTGGAGATCCCTGCCCCTCAGGACTATTGGGGCCCTGTATTCGCCATCTGCATCTTCCT
TTTTTCCTTCATCATCCCTGTGCTGATCATCTCTGTCTGCTACAGCCTCATGATTCGACGACTTC
GTGGTGTCCGTCTGCTTTCAGGCTCCCGGGAGAAGGACCGAAACCTGCGGCGTATCACTCGACTG
GTGCTGGTAGTGGTGGCTGTGTTTGTGGGCTGCTGGACGCCTGTGCAGGTGTTTGTCCTGGTTCA
AGGACTGGGTGTTCAGCCAGGTAGTGAGACTGCAGTTGCCATCCTGCGCTTCTGCACAGCCCTGG
GCTATGTCAACAGTTGTCTCAATCCCATTCTCTATGCTTTCCTGGATGAGAACTTCAAGGCCTGC
TTTAGAAAGTTCTGCTGTGCTTCATCCCTGCACCGGGAGATGCAGGTTTCTGATCGTGTGCGGAG
CATTGCCAAGGATGTTGGCCTTGGTTGCAAGACTTCTGAGACAGTACCACGGCCAGCATGACTAG
GCGTGGACCTGCCCATGGTGCCTGTCAGCCCACAGAGCCCATCTACACCCAACACGGAGCTCACA
CAGGTCACTGCTCTCTAGGTTGACCCTGAACCTTGAGCATCTGGAGCC

FIG. 13

TTGCAGGGCAGTGGCATGGAGCCCCTCTTCCCCGCGCCGTTCTGGGAGGTTATCTACGGC
AGCCACCTTCAGGGCAACCTGTCCCTCCTGAGCCCCAACCACAGTCTGCTGCCCCCGCAT
CTGCTGCTCAATGCCAGCCACGGCGCCTTCCTGCCCCTCGGGCTCAAGGTCACCATCGTG
GGGCTCTACCTGGCCGTGTGTGTCGGAGGGCTCCTGGGGAACTGCCTTGTCATGTACGTC
ATCCTCAGGTAGGCTGGGCCCCAAGGTTCCTGTCTGGCACACCAAAATGAAGACAGCCAC
CAATATTTACATCTTTAACCTGGCCCTGGCCGACACTCTGGTCCTGCTGACGCTGCCCTT
CCAGGGCACGGACATCCTCCTGGGCTTCTGGCCGTTTGGGAATGCGCTGTGCAAGACAGT
CATTGCCATTGACTACTACAACATGTTCACCAGCACCTTCACCCTAACTGCCATGAGTGT
GGATCGCTATGTAGCCATCTGCCACCCCATCCGTGCCCTCGACGTCCGCACGTCCAGCAA
AGCCCAGGCTGTCAATGTGGCCATCTGGGCCCTGGCCTCTGTTGTCGGTGTTCCCGTTGC
CATCATGGGCTCGGCACAGGTCGAGGATGAAGAGATCGAGTGCCTGGTGGAGATCCCTAC
CCCTCAGGATTACTGGGGCCCGGTGTTTGCCATCTGCATCTTCCTCTTCTCCTTCATCGT
CCCCGTGCTCGTCATCTCTGTCTGCTACAGCCTCATGATCCGGCGGCTCCGTGGAGTCCG
CCTGCTCTCGGGCTCCCGAGAGAAGGACCGGAACCTGCGGCGCATCACTCGGCTGGTGCT
GGTGGTAGTGGCTGTGTTCGTGGGCTGCTGGACGCCTGTCCAGGTCTTCGTGCTGGCCCA
AGGGCTGGGGGTTCAGCCGAGCAGCGAGACTGCCGTGGCCATTCTGCGCTTCTGCACGGC
CCTGGGCTACGTCAACAGCTGCCTCAACCCCATCCTCTACGCCTTCCTGGATGAGAACTT
CAAGGCCTGCTTCCGCAAGTTCTGCTGTGCATCTGCCCTGCGCCGGGACGTGCAGGTGTC
TGACCGCGTGCGCAGCATTGCCAAGGACGTGGCCCTGGCCTGCAAGACCTCTGAGACGGT
ACCGCGGCCCGCATGACTAGGCGTGGACCTGCCCATG

FIG. 14

TTGCAGGGCAGTGGCATGGAGCCCCTCTTCCCCGCGCCGTTCTGGGAGGTTATCTACGGCAG
CCACCTTCAGGGCAACCTGTCCCTCCTGAGCCCCAACCACAGTCTGCTGCCCCCGCATCTGC
TGCTCAATGCCAGCCACGGCGCCTTCCTGCCCCTCGGGCTCAAGGTCACCATCGTGGGGCTC
TACCTGGCCGTGTGTGTCGGAGGGCTCCTGGGGAACTGCCTTGTCATGCACACCAAAATGAA
GACAGCCACCAATATTTACATCTTTAACCTGGCCCTGGCCGACACTCTGGTCCTGCTGACGC
TGCCCTTCCAGGGCACGGACATCCTCCTGGGCTTCTGGCCGTTTGGGAATGCGCTGTGCAAG
ACAGTCATTGCCATTGACTACTACAACATGTTCACCAGCACCTTCACCCTAACTGCCATGAG
TGTGGATCGCTATGTAGCCATCTGCCACCCCATCCGTGCCCTCGACGTCCGCACGTCCAGCA
AAGCCCAGGCTGTCAATGTGGCCATCTGGGCCCTGGCCTCTGTTGTCGGTGTTCCCGTTGCC
ATCATGGGCTCGGCACAGGTCGAGGATGAAGAGATCGAGTGCCTGGTGGAGATCCCTACCCC
TCAGGATTACTGGGGCCCGGTGTTTGCCATCTGCATCTTCCTCTTCTCCTTCATCGTCCCCG
TGCTCGTCATCTCTGTCTGCTACAGCCTCATGATCCGGCGGCTCCGTGGAGTCCGCCTGCTC
TCGGGCTCCCGAGAGAAGGACCGGAACCTGCGGCGCATCACTCGGCTGGTGCTGGTGGTAGT
GGCTGTGTTCGTGGGCTGCTGGACGCCTGTCCAGGTCTTCGTGCTGGCCCAAGGGCTGGGGG
TTCAGCCGAGCAGCGAGACTGCCGTGGCCATTCTGCGCTTCTGCACGGCCCTGGGCTACGTC
AACAGCTGCCTCAACCCCATCCTCTACGCCTTCCTGGATGAGAACTTCAAGGCCTGCTTCCG
CAAGTTCTGCTGTGCATCTGCCCTGCGCCGGGACGTGCAGGTGTCTGACCGCGTGCGCAGCA
TTGCCAAGGACGTGGCCCTGGCCTGCAAGACCTCTGAGACGGTACCGCGGCCCGCATGACTA
GGCGTGGACCTGCCCATG

FIG. 15

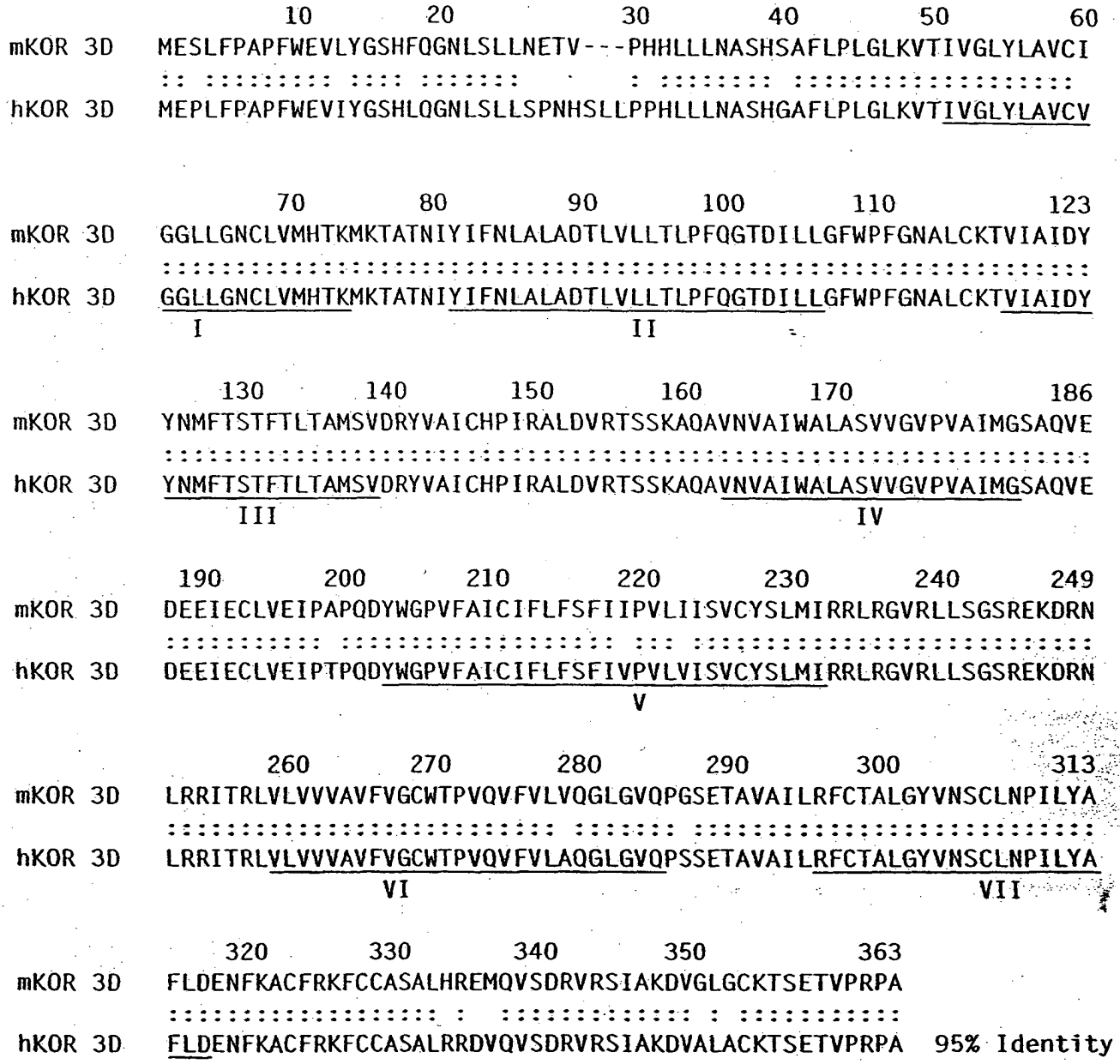

10 20 30 40 50 60
mKOR 3D MESLFPAPFWEVLYGSHFQGNLSLLNETV---PHHLLLNASHSAFLPLGLKVTIVGLYLAVCI
hKOR 3D MEPLFPAPFWEVIYGSHLQGNLSLLSPNHSLLPPHLLLNASHGAFLPLGLKVTIVGLYLAVCV
70 80 90 100 110 123
mKOR 3D GGLLGNCLVMHTKMKTATNIYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDY
hKOR 3D GGLLGNCLVMHTKMKTATNIYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDY
I
II
130 140 150 160 170 186
mKOR 3D YNMFTSTFTLTAMSVDRYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVE
hKOR 3D YNMFTSTFTLTAMSVDRYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVE
III
IV
190 200 210 220 230 240 249
mKOR 3D DEEIECLVEIPAPQDYWGPVFAICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRN
hKOR 3D DEEIECLVEIPTPQDYWGPVFAICIFLFSFIVPVLVISVCYSLMIRRLRGVRLLSGSREKDRN
V
260 270 280 290 300 313
mKOR 3D LRRITRLVLVVVAVFVGCWTPVQVFVLVQGLGVQPGSETAVAILRFCTALGYVNSCLNPILYA
hKOR 3D LRRITRLVLVVVAVFVGCWTPVQVFVLAQGLGVQPSSETAVAILRFCTALGYVNSCLNPILYA
VI
VII
320 330 340 350 363
mKOR 3D FLDENFKACFRKFCCASALHREMQVSDRVRSIAKDVGLGCKTSETVPRPA
hKOR 3D FLDENFKACFRKFCCASALRRDVQVSDRVRSIAKDVALACKTSETVPRPA 95% Identity

FIG. 16

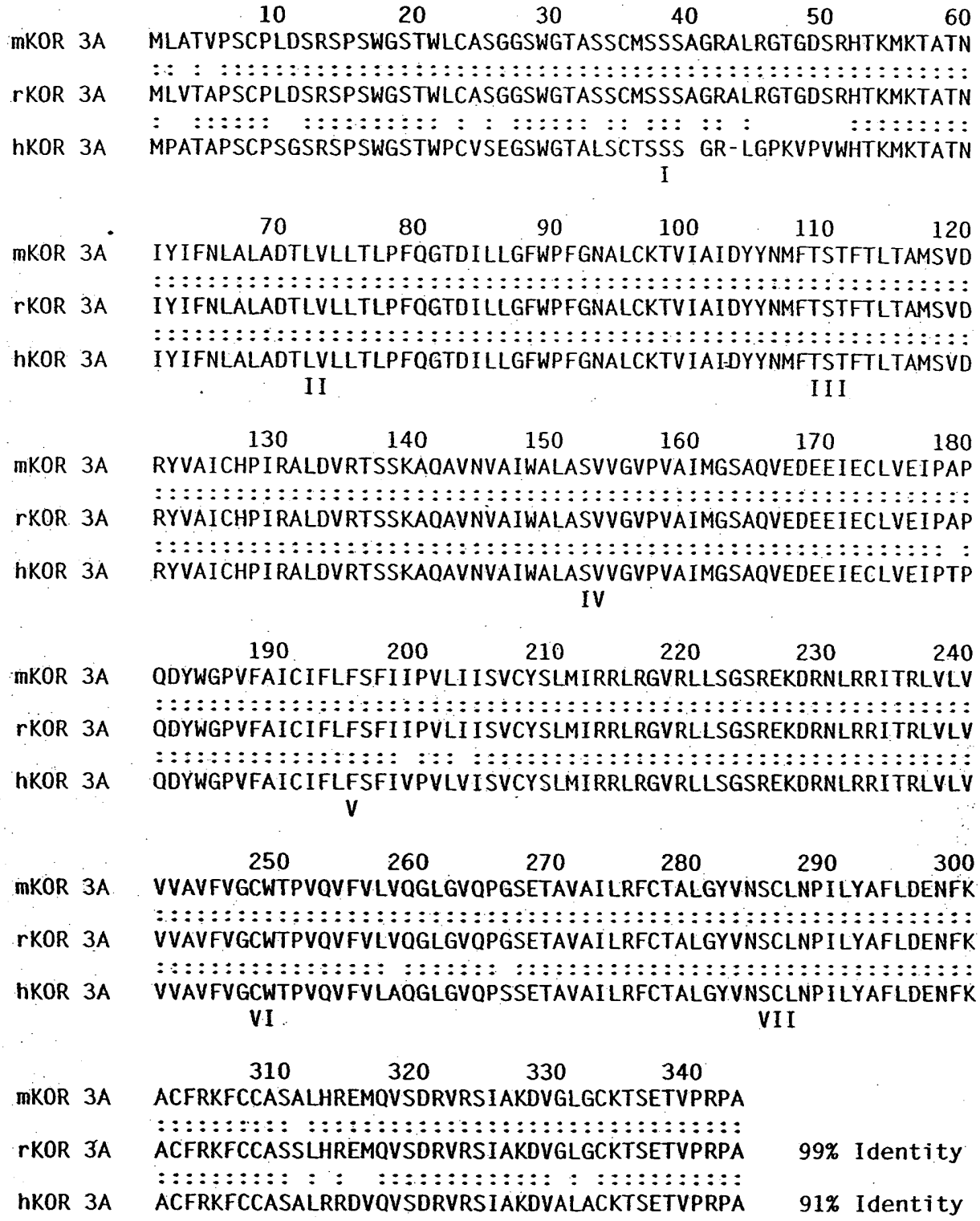

10 20 30 40 50 60
mKOR 3A MLATVPSCPLDSRSPSWGSTWLCASGGSWGTASSCMSSSAGRALRGTGDSRHTKMKTATN
rKOR 3A MLVTAPSCPLDSRSPSWGSTWLCASGGSWGTASSCMSSSAGRALRGTGDSRHTKMKTATN
hKOR 3A MPATAPSCPSGSRSPSWGSTWPCVSEGSWGTALSCTSSS GR-LGPKVPVWHTKMKTATN
I
70 80 90 100 110 120
mKOR 3A IYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVD
rKOR 3A IYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVD
hKOR 3A IYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVD
II III
130 140 150 160 170 180
mKOR 3A RYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAP
rKOR 3A RYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAP
hKOR 3A RYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPTP
IV
190 200 210 220 230 240
mKOR 3A QDYWGPVFAICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLV
rKOR 3A QDYWGPVFAICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLV
hKOR 3A QDYWGPVFAICIFLFSFIVPVLVISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLV
V
250 260 270 280 290 300
mKOR 3A VVAVFVGCWTPVQVFVLVQGLGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFK
rKOR 3A VVAVFVGCWTPVQVFVLVQGLGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFK
hKOR 3A VVAVFVGCWTPVQVFVLAQGLGVQPSSETAVAILRFCTALGYVNSCLNPILYAFLDENFK
VI VII
310 320 330 340
mKOR 3A ACFRKFCCASALHREMQVSDRVRSIAKDVGLGCKTSETVPRPA
rKOR 3A ACFRKFCCASSLHREMQVSDRVRSIAKDVGLGCKTSETVPRPA 99% Identity
hKOR 3A ACFRKFCCASALRRDVQVSDRVRSIAKDVALACKTSETVPRPA 91% Identity

FIG. 17

FIG. 18A

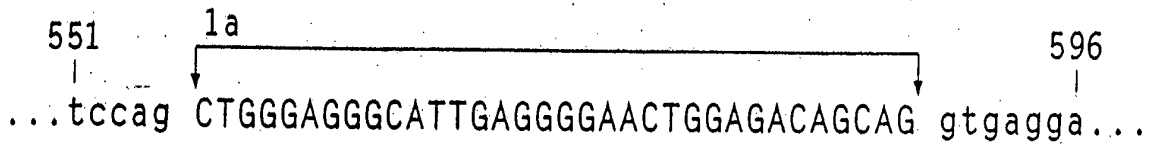


FIG. 18B

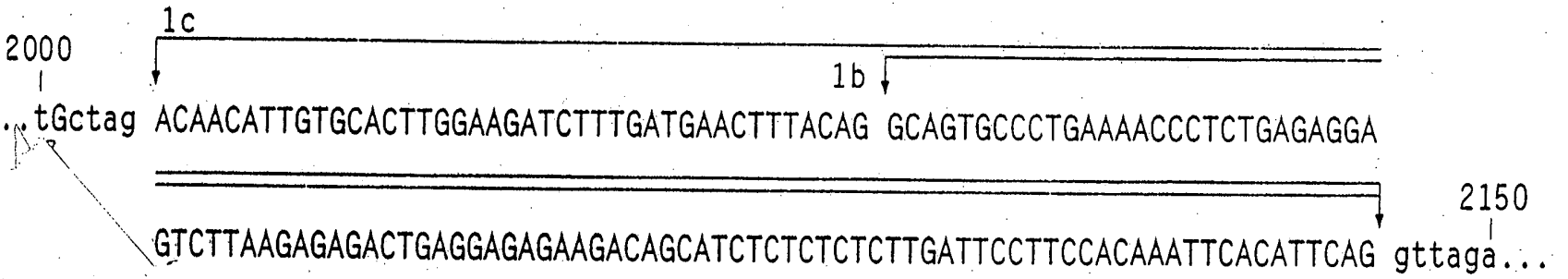
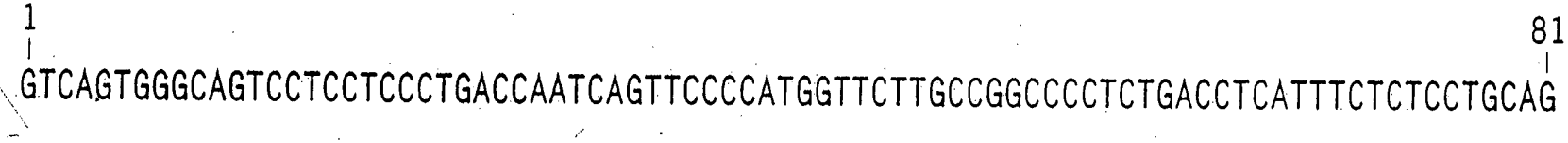


FIG. 18C



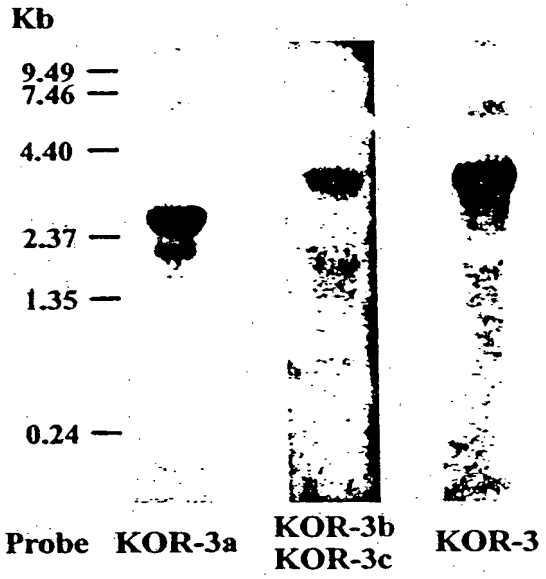

Kb
9.49
7.46
4.40
2.37
1.35
0.24
Probe
KOR-3a
KOR-3b
KOR-3c
KOR-3

FIG. 19

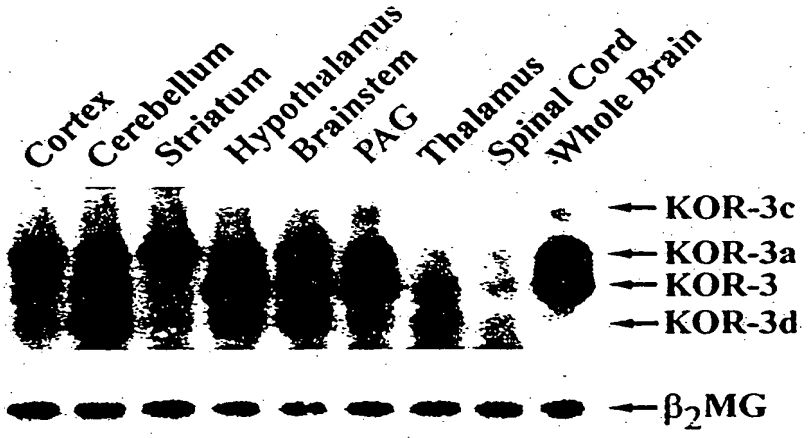

Cortex
Cerebellum
Striatum
Hypothalamus
Brainstem
PAG
Thalamus
Spinal Cord
Whole Brain
KOR-3c
KOR-3a
KOR-3
KOR-3d
β2MG

FIG. 20